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ABSTRACT

Presented in this 41-page bibliography are listings on environmental concerns, pollution, energy, and environmental education (see also SO 008 762). The listings provide the most current information on energy and environment dating from 1973 through 1975. The bulk of the documents are conference proceedings, project reports, studies, and commercially published books. Citations are alphabetized by author and include the title, date, number of pages, and availability. (JR)

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# NEW PUBLICATIONS FOR PLANNING LIBRARIES

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# NEW PUBLICATION FOR PLANNING LIBRARIES

## LIST NO. 14:

## ENERGY AND ENVIRONMENT

by

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University of Illinois
Champaign - Urbana

## ENERGY

Abelson, Philip H. Energy for tomorrow. Seattle: University of Washington Press, 1975, 78p.

Dr. Abelson is the editor of Science, the weekly magazine of the American Association for the Advancement of Science and President of the Carnegie Institution of Washington.

Contents: 1. The lasting impact of energy problems; 2. Energy resources; 3. Achieving balance in energy supply and demand.

Aldrich, James L., ed. Energy, environment and education: A working paper. Washington, D.C.: The Conservation Foundation, 1973.

A discussion of energy problems taken from three one-day workshops during the summer of 1973 in Lincoln, Massachusetts, Orlando, Florida, and Washington, D.C. (Single copy distribution, limited supply)

American Enterprise Institute for Public Policy Research. Performance of the Federal Energy Office, by Richard B. Mancke. Washington, D.C., 1975, 25p. (National energy study no. 6)

American Institute of Architects Research Corp. Energy conservation design guidelines for office buildings. Washington, D.C., 1974.

Atkinson, Scott E. and Donald H. Lewis. A cost evaluation of alternative air quality control strategies. Prepared for Washington Environmental Research Center, Office of Research and Development, U.S. Environmental Protection Agency. Washington, D.C.: U.S. Government Printing Office, 1974, 56p. (Socioeconomic environmental studies series)

Baldwin, Pamela L. Onshore planning for offshore oil: Lessons from Scotland. Pamela L. Baldwin and Malcolm F. Baldwin. Washington, D.C.: Conservation Foundation, 1975, 183p.

Berkshire Co., Massachusetts Regional Planning Commission and Curron Associates, Inc. Evaluation of Power Facilities: A reviewers handbook. Pittsfield, Massachusetts, 1974, 378p.

"This handbook identifies and discusses the positive and negative impacts of power facilities on regional and local areas. The handbook identifies public agencies to which the comprehensive planner may turn for additional information and assistance."

Bohi, Douglas R. and Milton Russell. U.S. energy policy: Alternatives for security. Baltimore: Published by the Johns Hopkins University Press for Resources for the Future, Inc., 1975, 142p.

"How can the United States assure itself of an uninterrupted supply of oil at lower prices? In this study, Bohi and Russell analyze the future U.S. requirements for petroleum in the light of the behavior of oil-producing nations individually and as a group. They assess the desirability and feasibility of alternative policies such as increasing storage and standby capacity, quotas and tariffs, and they compare the probable outcomes of a policy of self-sufficiency with a policy of interdependence. They conclude that a policy that welcomes limited oil imports and investment from petroleum producing nations is most likely to benefit the United States and other consuming nations."

Breyer, Stephen G. and Paul W. MacAvoy. Energy regulations by the Federal Power Commission, Washington, D.C.: The Brookings Institute, 1974, 163p.

In searching for a way out of the energy crisis, it is only natural to look in the direction of the Federal Power Commission. On the surface, encouragement might be drawn from its record. By the standards of the federal bureaucracy its procedures are thorough and it clears its dockets in a reasonable

time. Generally the FPC has been competently staffed and managed, and it has avoided "capture" by the industries it regulates.

Yet on the basis of econometric analysis, the authors conclude that the FPC is "effective but not efficient." Their main findings: by holding prices below the competitive level at the wellhead in the 1960s, the commission inadvertently caused a shortage of gas and service; despite voluminous proceedings, pipeline rates ended up at about the level they would have reached without any regulation; failure to move the electric power industry to higher levels of coordination prevented potential savings of hundreds of millions of dollars a year.

For the reader interested primarily in energy policy, a crucial issue is raised here. The regulatory agency as such--an institution that Americans tend to rely on--has not been very helpful to the energy consumer. In some cases, reliance on the market may yield greater economic benefits; in other cases, direct government participation may be needed. For the reader interested in general economic questions, the book is an illuminating case study that touches on three classic economic problems: utility regulation, price control, and industrial planning."

Briggs, Michael J. and Mitchell L. Moss. Community decision-making and energy exploration: The Pacific Palisades conflict. Los Angeles: University of Southern California, Sea Grant Program, 1973, 98p.

Burns, Léland S. A not-so-easy way to solve the energy shortage. Los Angeles: University of California at Los Angeles, School of Architecture and Urban Planning, n.d., 7p.

Calderon, Cinda Martin and David W. MacKenna. Energy and local government; a report to the cities and counties of Texas. Arlington, Texas: Texas University Institute of Urban Studies, 1974, 108p.

California. State Water Resources Control Board. Energy Task Force. Effects of energy shortage on the treatment of wastewater in California. Prepared by: The Energy Task Force, W. Don Maughan and others, Sacramento, 1974, 45p.

Clark, Wilson. Energy for survival, the alternative to extinction. Garden City, New York: Anchor Press, Doubleday, 1975, 652p.

Contents: The energy basis of our civilization. Energy: The limits to growth. Energy and society, the coming decentralization of America's electrical system. Energy resources in the future. Energy from the sun. Decentralized uses of solar energy. Energy from the winds. Afterword: The energy basis for future society.

Cochran, Thomas B. The liquid metal fast breeder reactor. Distr. Johns Hopkins University Press. Washington, D.C.: Resources for the Future, Inc., 1974.

Committee for Economic Development. Achieving energy independence, a statement by the Research and Policy Committee. New York, 1974, 91p.

Contents: 1. Energy independence and how to attain it, Priorities; Sources of the energy crisis; Policy goals and means; Government and industry; Summary of recommendations. 2. Conserving energy use: First step toward independence, Restraining demand; Prices and efficiency; Efficiency, equity, and inflation; Program for more efficient energy use. 3. Supply: Independence and redundancy, How much is enough; Near-term possibilities: Familar fuels; Other available sources of energy; Reducing uncertainty; Near-term trade-offs between the environment and increased energy production; Medium-term possibilities: Synthetic fuels and breeder reactors; Long-term prospects: Research; Capital costs; Reserves and standby capacity. 4. Government organization for energy administration, The president and energy policy; Accelerating research and development; Energy regulation; Department of energy and natural resources; Energy and mineral resources administration; Integration of environmental protection and resources development at the cabinet level; Congressional organization for legislative policy on energy.

Conference on energy and its impact upon Public policy and Administration, University of Oklahoma, 1974. Energy impacts on public policy and administration, papers, Walter F. Scheffer, editor. Norman: Distributed by Advanced Programs, University of Oklahoma, 1974, xi, 238p.

The Conservation Foundation. The southwest energy complex: A policy evaluation. Washington, D.C., n.d., 80p.

An analysis of the history and consequences of the energy complex in the Four Corners area and the pattern of federal failure to consider the environmental implications of proposed actions.

Council of state governments. State responses to the energy crisis. Lexington, March 1975, 42p.

Energy Crisis: The Regional Conference sponsored by the Capitol Development Board of the State of Illinois. Conference transcript. Springfield, Illinois: Capitol Development Board, 1974, v.p.

Session I. Architectural and mechanical considerations relative to building operation: Chairman--John W. Moore; Keynote speaker--Dr. Fred Holzer; Why an energy conference--Donald R. Le Fevre; Study of the potential for energy conservation in schools--Edward Stephan; Mechanical operations of schools,

unitary system--Everett Gordon; Governmental building operations--Joseph McGrath; Governmental building operations--George McVicar; Another look at the energy shortage--Robert F. Fearon

Session II. Architectural and mechanical considerations relative to building operation: Chairman--Dr. William B. Cottingham; University/central plant operation--Robert W. Flanagan; Commercial building operation--Lawrence Green; Industrial building operation--Bruce Glidden; Energy conservation in residential buildings--Ion Caloger; Energy savings through office building operation-- William J. Abraham; Government building operation--John E. McCarthy; Economic aspects of energy conservation relative to building operation--David L. Grumman

Session III. Architectural and mechanical considerations relative to creating an environment: Chairman--Ben E. Graves; Architectural aspects of building design with respect to energy conservation--Richard Stein; Lighting system considerations--William M. C. Lam; How much ventilation is required?--Allan Tweedle; Humidification applications with respect to energy, health and comfort--Dale O. Bender; Designing for minimum energy use--Charles J. R. McClure; Agricultural needs for energy--Edward H. Hansen.

Session IV. Architectural and mechanical considerations relative to creating an environment: Chairman--Almon J. Durkee; Energy conservation through architectural design--George T. Heery; Aspects of mechanical engineering to building design--Fred S. Dubin; Effect of materials on energy conservation--Dr. Lois Graham; A fresh look at fundamental design parameters--Frank J. Powell; Energy use criteria in building codes and standards--Joseph Stein; Optimization of structures based on energy conservation--Narbey Khachaturian; Architectural system considerations--P. Richard Rittleman.

Session V. Systems approach to energy conservation: Chairman--Paul L. Brown; Systems approach to energy conservation--Paul L. Brown; Systems approach to energy conservation--Dr. John R. Boice; Central plants vs. unitary system--Dennis R. Bridges; Energy conservation control, $EC^2$--Norman Janisse; Heat reclaim applications--John A. Cahill; The air conditioning system and energy conservation--James A. Reese; Fuel availability and selection options--Gregory Gould; The dollars and sense of mechanical system optimization--Harry Phipps; Cost of design modifications for energy conservation--Oliver Filley;

Luncheon speaker: Impact of energy crisis on society--Dr. Richard Balzhiser.

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Freeman, S. David. Energy: The new era. New York: Walker and Co., 1974.

In the winter of 1973-74, the energy crisis swept over the American scene like a tornado. Even though the acute gasoline shortage soon disappeared, the implications were clear: America's high-energy civilization had been living way beyond its means for a long time-resolution of the crisis might take even longer.

The tumultuous start of this new era-when energy becomes increasingly scarce and expensive, and is dirty as well-brings a heightened clash of basic values. It forces crucial decisions to be made on the interlinked problems of the environment, inflation, politics, economic health and foreign affairs.

A highly qualified guide through the maze of information and misinformation surrounding this new era, and one who is independent of both government and the energy industry, S. David Freeman begins with a candid explanation of the forces that propelled the U.S.-and the world-to the energy brink in the winter of 1973-74.

He analyzes how we squander more than 50 percent of the oil, coal and natural gas we burn today by careless mining practices, by needlessly heating the great outdoors, by inefficient machines and profligate transportation systems. He explores the many ways we can heat and cool our homes, design our products, fuel our factories, drive our cars-frugally and with a new simplicity-but without real hardship and without compromising our environmental goals.

Such conservation will help balance our energy budget for a few years, and by 1980, there looms the potential of new and cleaner energy sources. As oil becomes too precious to burn, we can expect economically feasible solar heating and cooling units for every new home, learn to tap the earth's inner heat, and mine and burn coal in ways that are safe and clean. Further off, past the year 2000, there emerges the promise of large-scale harnessing of solar energy and the possibility of taming the power of the H-bomb as a source of cleaner energy.

Finally, Mr. Freeman explores the network of incentives and controls that must be initiated to ensure true energy conservation and all-out technological innovation in an equitable and democratic society.

But none of these efforts, he maintains, will avert future worldwide crises unless we learn to live at a fundamentally lower energy growth rate. This will entail a reordering of the goals of society. The slogan that "more is better" must give way to the realization that "enough is best."

Mr. Freeman is conficent that we can meet this, the greatest test of our national intelligence and maturity.

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Part 2. The structure - The methods - The culprits: 4. Interlocking monopolies; 5. The Rockefellers and the oil trust; 6. The seven thieves and oil imperialism; 7. The patriotism of profits.

Part 3. The victims - The destruction - The confrontation: 8. The crisis rip-off; 9. The working class gets the boot; 10. Racism and oil profits; 11. Pollution and profits.

Part 4. The struggle - The policy - The victory: 12. National liberation and oil; 13. The path ahead-nationalization; 14. Energy and socialism; 15. Marxism-"computer" for victory.

Hirshberg, Alan and Richard Schwen. Barriers to the widespread utilization of residential solar energy; the prospects for solar energy in the U.S. housing industry. Los Angeles: University of California, School of Architecture and Planning, 1973, 23p+.

Jacoby, Neil H. Multinational oil: A study in industrial dynamics. New York: Macmillan, 1974, 323p.

Kansas University--Institute for Social and Environmental Studies. Kansas energy policy study; Final report; government and legal procedures; evaluation component of the Kansas energy study. Topeka, Kansas: Department of Economic Development, Planning Division, 1974, 206p. (Planning for development report no. 59)

"The content of this report is a survey and analysis of major governmental policies and procedures which affect the Kansas

energy system. The analysis focuses on federal energy policies and implications for the State of Kansas and its governmental sub-units, state energy policies in Kansas as well as those in other states and substates and local energy policies in Kansas. The problems and opportunities in state energy policy are explored and recommendations are included relative to various policy options, potential impacts of finding federal energy actions on these options, and comprehensive state energy policy development."

Knowles, Ruth Sheldon. America's oil famine, how it happened and where it will end. New York: Coward, McCann and Geoghegan, Inc., 1975.

In this timely and informative book Ruth Sheldon Knowles, an internationally known petroleum specialist, clarifies the domestic and foreign issues which underlie the current oil "famine" and spells out the hard choices the American public faces on energy priorities in the near future. She explains how we became so dependent on foreign, including Arab, oil and offers hope of our becoming self-sufficient in the more distant future as alternate sources of energy are developed. However, she makes clear that in the next few years the economy of the country needs an adequate supply of oil and gas and that such a supply cannot be achieved unless further oil discovery is encouraged. More than half of our current oil and gas potential lies under public lands offshore and in Alaska. Its development cannot be achieved by rationing or by perpetuating scarcity. The immediate development of our coal reserves and nuclear power potential also involves controversial public policy. America's Oil Famine details the way new technology can reconcile essential energy resource development with the maintenance and improvement of the quality of our environment.

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Reed, Raymond D. The impact of and potential for energy conservation practices in residential and commercial buildings in Texas. College Station: Texas A & M University College of Architecture and Environmental Design, 1974, 122p.

Regional Plan Association, New York Regional Energy Consumption. New York, 1974, 47p. (RPA bulletin #21)

"This is the second of a series of reports resulting from a point research project conducted by Resources for the Future, Inc. and Regional Plan Association, Inc. under a grant from The Ford Foundation. The purpose of the project was to indicate energy consumption trends and energy conservation opportunities in the New York region.

Sagan, Leonard A., ed. Human and ecological effects of nuclear power plants. Springfield, Illinois: Charles C. Thomas, 1974, 560p.

"There is a widespread need and public desire to better understand nuclear power and its consequences. It seems beyond dispute that reactor technology and its ecologic effects exceed the detailed understanding of even many experts. Compounding this difficulty, the interested layman is also faced with an inaccessible and fragmented literature.

This book is meant to provide both a comprehensive introduction for the interested layman as well as a useful reference for the technical expert.

Although the book is directed toward an exposition of human and ecologic effects of nuclear power plants, more than half of the book is dedicated to a description of reactors and the uranium fuel cycle. Particular emphasis is given to sources and quantities of radioactivity that enter the environment."

Contributors: John P. Baptist; Victor P. Bond; W. B. Cottrell; Merril Eisenbud; F. A. Gifford; Loren D. Jensen; Harry J. Otway; Dean R. Parker; Thomas W. Philbin; T. R. Rice; Walton A. Rodger; Leonard A Sagan; Kenneth J. Schneider; L. B. Shappert and John G. Yevick.

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Contents: Preface; Conference Speakers; I. Introduction: Energy, Public policy , and administration--Walter F. Scheffer. II. The energy problem in the perspective of time: The nature of the energy problem--Karl H. Bergey; Energy in the 1970's--The problem of Abundance to scarcity--Don E. Kash. III. Factors affecting energy resources and public policies: Competitive market structure and performance in the petroleum industry--John W. Wilson; Mineral issues and the public interest--John B. Rigg; Energy impacts on domestic and international priorities and policies--Irvin L. (Jack) White. IV. Role of government in energy policy: Congressional initiatives in energy policy--James W. Curlin; National energy policy: An instamatic tour through Washington--Stephen J. Gage; The role of the State in energy policy--Robert Talley, III. V. Future policy directions: The problem of policy-making in energy resource management--Lynton K. Caldwell. VI. Summary: Toward a comprehensive energy policy--Walter F. Scheffer. Conference Participants.

Schmalz, Anton B. Energy: today's choices, tomorrow's opportunities. Essential dimensions in thinking for energy policy. Forward by Vice President Gerald R. Ford; epilogue by John W. Gardner; edited by Anton B. Schmalz. Washington, D.C.: World Future Society, 1974, 301p.

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Smil, Vaclav. Energy and the environment: A long range forecasting study, with a preface by Edward S. Cornish. Winnipeg: Department of Geography, University of Manitoba, 1974, 187p.

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Yannacone, Victor J. Jr. Energy crisis, danger and opportunity. St. Paul: West Publishing Co., 1974, 432p.

Contents: I. Energy: 1. Work, energy and power, by John W. Andrews. II. Energy and resources: 2. energy resources by M. King Hubbert; 3. Fossil fuels are not just for burning by Victor John Yannacone, Jr. III. Costs vs. benefits-benefits vs. risks: 4. How shall we generate electricity? Criteria for public choice, by Victor John Yannacone, Jr.; 5. Fuels for power: costs, benefits, and risks in perspective, by Victor P. Bond; 6. Fable for another time, by Angelo J. Cerchione; 7. Conserving energy: opportunities and obstacles, by David B. Large; 8. Conservation of energy in building, by James A. Lowden; 9. Energy crisis: fact or fiction? by Ronald W. Comstock; 10. Energy economics: real and unreal, by Mike Morrison; 11. Nepa, energy and the economy, by Irving Like; 12. The origins of a national environmental policy, by Victor John Yannacone, Jr.; 13. Energy and conservation, by Nicholas Muhlenberg; Epilogue, by Victor John Yannacone, Jr.

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Part Three: Clearing the air: 16. life and pollution-growth and mankind; 17. solutions and non-solutions to environmental problems.

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Baldwin, Malcolm F. Public policy on oil: An ecological perspective. Reprinted from Ecological Law Quarterly. Washington, D.C.: The Conservation Foundation, n.d., 64p.

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Baldwin, Pamela L. and Malcolm F. Baldwin. Onshore planning for offshore oil: Lessons from Scotland. Washington, D.C.: The Conservation Foundation, 1975, n.p.

What to expect onshore when oil and gas are discovered offshore. A report on the experience and management techniques employed in Scotland as they relate to potential offshore oil leasing for United States coastal regions.

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Section II. Some Cultural Background: Social benefit versus technological risk--Chauncey Starr; How should we treat environment?--F. Kenneth Hare; Man and his environment--Ansley J. Coale; American institutions and ecological ideals--Leo Marx; Ethics and population limitation--Daniel Callahan; Technology assessment and social control--Michael S. Baram.

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"The first comprehensive guide to the residential environmental impact statement, including the most recent changes in federal and state guidelines (thru January 1975). This volume surveys the scope, objectives, and requirements of the National Environmental Policy Act of 1969 and its many progeny at the state and local level-the result is an explicit, current, and comprehensive proposal for the content and format of local environmental impact statements. The recommended procedures treat the intricacies of environmental evaluation in plain language and with direct attention to the question who must file, what an EIS must contain, and how it will be reviewed. Also included is a rich variety of resource materials-an annotated bibliography of published sources, listings of public and professional environmental organizations, a glossary of technical terms, a survey of EIS interpretations in the courts, and a guide to the quantitative aspects of environmental evaluation. A practical approach to the problems of all those who must write or review an EIS is the hallmark of this indispensable handbook."

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The vast body of recent literature dealing with environment and ecology dramatically reflects the need for better access to information in these vital fields. At present there is no comprehensive reference source available. As a result, many valuable books, articles, essays, and research studies on these subjects are virtually unused, because they have not previously been included in any reference work. The reference librarian compiling a bibliography or working with a patron, the teacher preparing a study unit, the legislator undertaking a position paper-all have been handicapped by this void.

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A sub-divided table of contents and an alphabetical index in the back of the book make this the ideal arrangement, quickly locating promising reference points to the specific subjects and also providing an overview for the general researcher.

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A second principal feature of the book is the author's examination of policy development and implementation at the three levels of government-federal, state, and local. Finally, Clean Air evaluates air pollution policy processes. Dr. Jones first establishes criteria for measuring the extent to which these processes meet the conditions of John Dewey's "organized, articulate Public." Following these tests he presents some general recommendations from his realistic perspective of air pollution problems.

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Texts of all area have been checked for accuracy by on-site administrators. Thus the book is a reliable, up-to-date guide for persons in search of solitude and natural beauty, for fishermen, skiers, hikers, or those who simply want to read about the remaining wild wonders of an extraordinary continent."

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